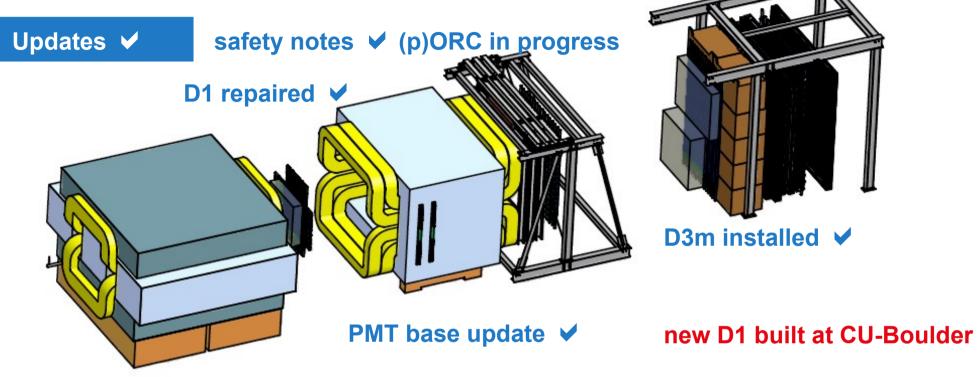


**Spectrometer Status** 



**Target** ✓

**Magnets** 

**Hodoscopes** ✓

**Drift Chambers** ✓

D2 cooldown test last week ✓, operational scheduling of test of power supplies (NM3S, NM4AN) and interlocks operational, calibrated with cosmics; ToDo: mapping test, survey

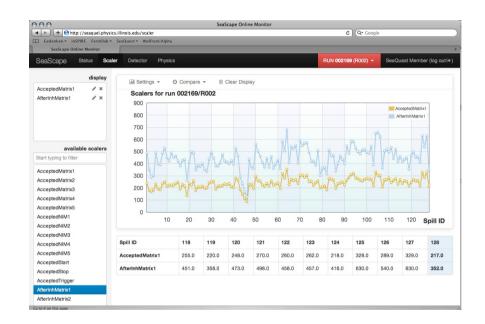
proportional tubes repaired (dead module, oscillations, HV problem), operational, HV training, test of mapping (wire  $\rightarrow$  ASDQ / LSB  $\rightarrow$  TDC) and survey in process; ToDo: HV training for D1 (+1450V  $\rightarrow$  +1.5kV) and D2 (-1.8kV  $\rightarrow$  -1925V), mapping test for D3m, survey for D2, change gas adiabatically from Ar:CO<sub>2</sub> to P08:CF<sub>4</sub>

## **DAQ / Trigger Status**

- custom-made high-rate TDCs installed and well tested
- L(evel)0, L(evel)1, and L(evel)2 trigger modules installed and operational
- comprehensive test of trigger firmware almost completed:
  - required speeding up the LVL2 clock period (16ns → 15.8ns) to avoid LVL1 and LVL2 internal clocks to be aligned (caused 0.08% of the signals to be missed)
  - 100.0% purity and 100.0% efficiency found in road pulser tests
- trigger road selection optimized for:
  - good DAQ livetime
  - good acceptance rate of Drell-Yan events
  - ToDo: restructure trigger firmware, study effects on Drell-Yan acceptance
- NIM / FPGA trigger comparison:
  - NIM clone logic implemented
  - ToDo: add NIM clone logic in main firmware

## Software / Analysis Status

- ongoing decoder cross check
- new mapping file completed
- online monitoring in progress:
  - test online decoding and tracking
  - adding modules to SeaScape
  - use onsite MySQL / web servers
- tracker comparison in progress:
  - jTrack and kTrack use common track-finding strategies that emerged from Run I analysis
  - different approaches for vertex finding
  - improved tracking efficiencies



## **Beam status**

- Main Injector slow-spill extraction:
  - repair of MI-52 septa tank B (resistors replaced)
- Status of external beamline for SeaQuest:
  - successful test of all safety systems
  - installation of all G2 and NM1 magnets
  - beam-line Cerenkov counter installed
    - → improved beam diagnostics, bucket by bucket intensity measurement
  - ToDo:
    - vacuum checking for G2
    - installation and alignment of box SWIC in NM1
    - pump-down of berm pipe, very soon / perhaps today
    - finalize read-out board for beam-line Cerenkov counter

The E-906/SeaQuest collaboration is looking forward to the commissioning and data taking with the 120 GeV proton beam with a high duty factor!